Name: Date:
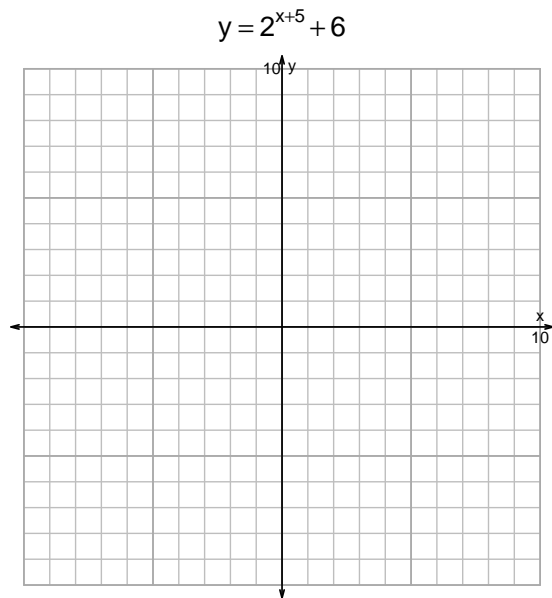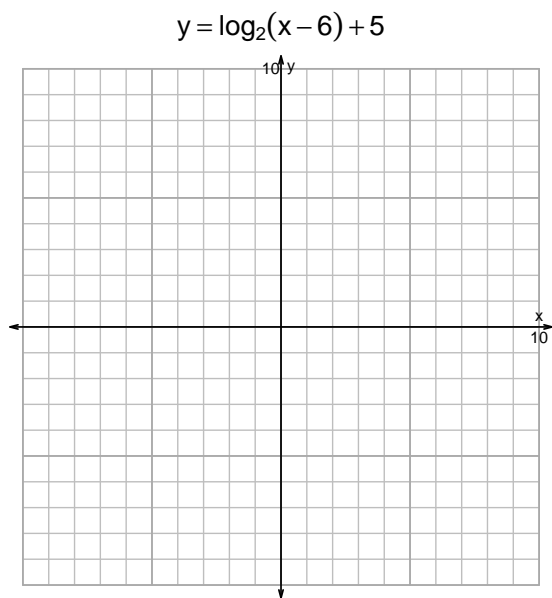_____   _____

s18quiz: EXP LOG (QUIZ v251)

1. Graph $y = \log_2(x - 6) + 5$ and $y = 2^{x+5} + 6$ on the grids below. Also, draw any asymptotes with dotted lines.

$$y = \log_2(x-6) + 5$$

$$y = 2^{x+5} + 6$$

2. Write (but do not evaluate) the solution to the equation below by writing a logarithmic expression.

$$11 = \left(\frac{4}{7}\right) \cdot 2^{5t/3}$$

3. An exponential function $f(x) = 1.26 \cdot e^{-1.85x}$ is graphed below on a semi-log plot.

a. Using the plot above, evaluate $f(2.8)$.

b. Express $f^{-1}(x)$, the inverse of f.

c. Using the plot above, evaluate $f^{-1}(0.6)$.